AVBTP Layering Overview

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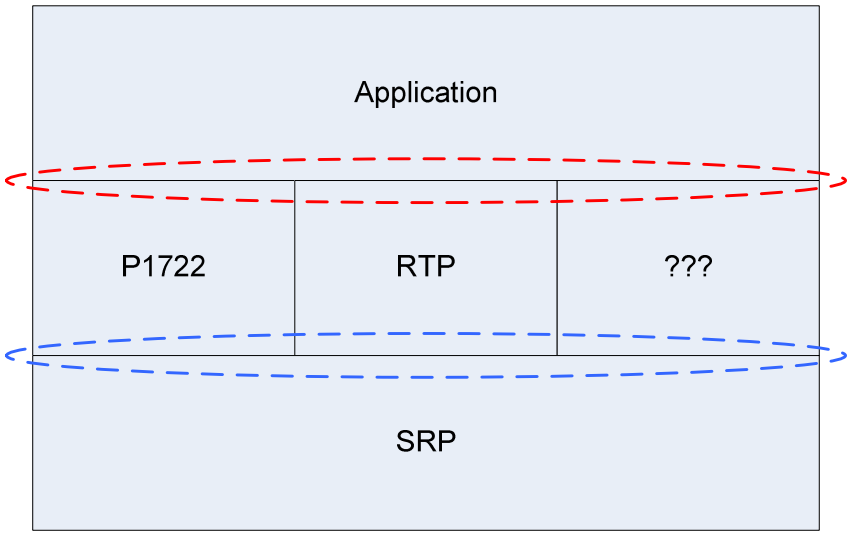
AVBTP Layers

What belongs where?

- Discovery
- Control
- Bandwidth
- Synchronization
- Streaming



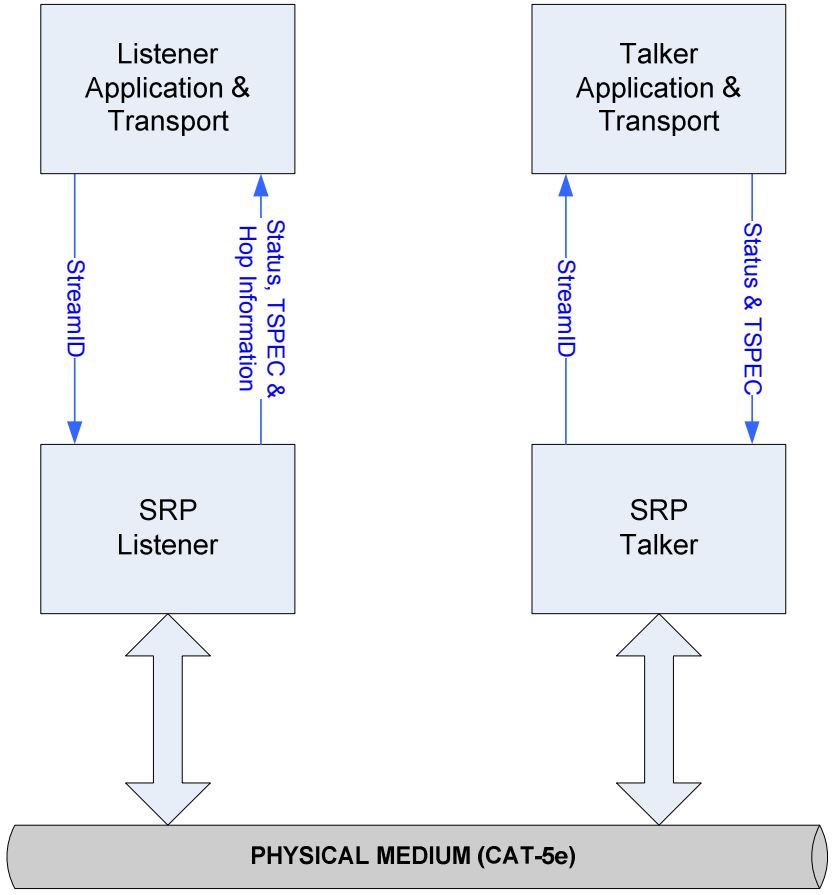
Application/Transport interface
"the red zone"

- P1722 Working Group must define this
- Zeroconf, UPnP, DLNA, P1722 Session Management?
- Match Listeners to compatible Talkers
  - 48-k, 24-bit audio
  - Video
- 802.1AS time synchronization

Transport/SRP interface

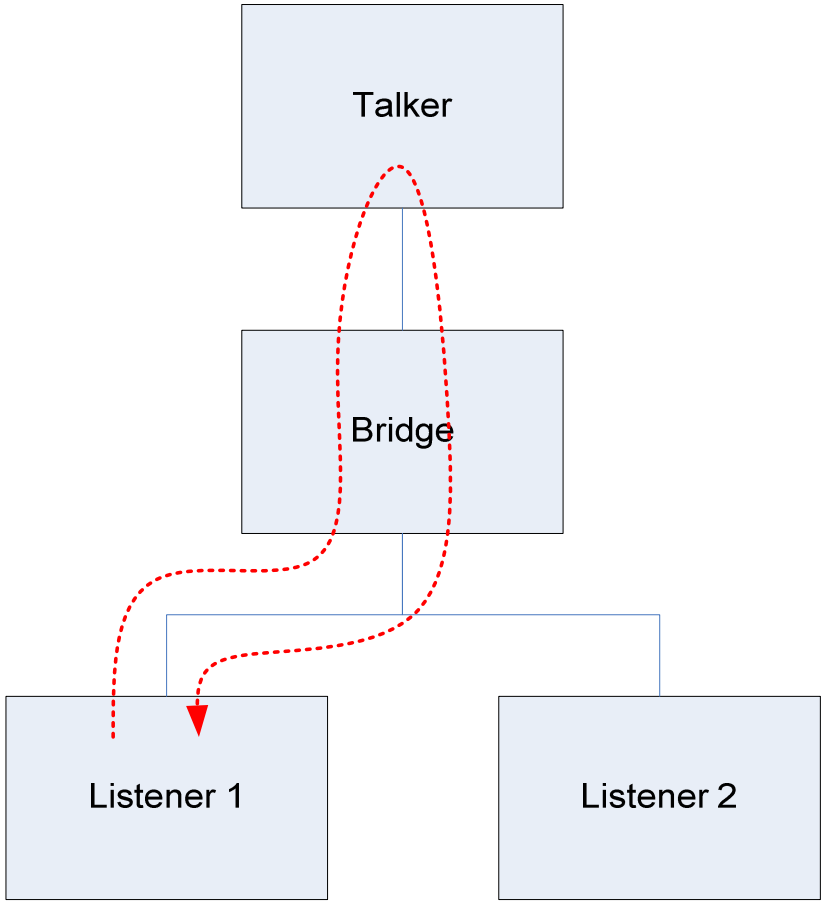
“the blue zone”

- Defined by 802.1Qat
- Listener requests a StreamID
- Talker returns a Status and TSPEC
- Bridges add Hop Information



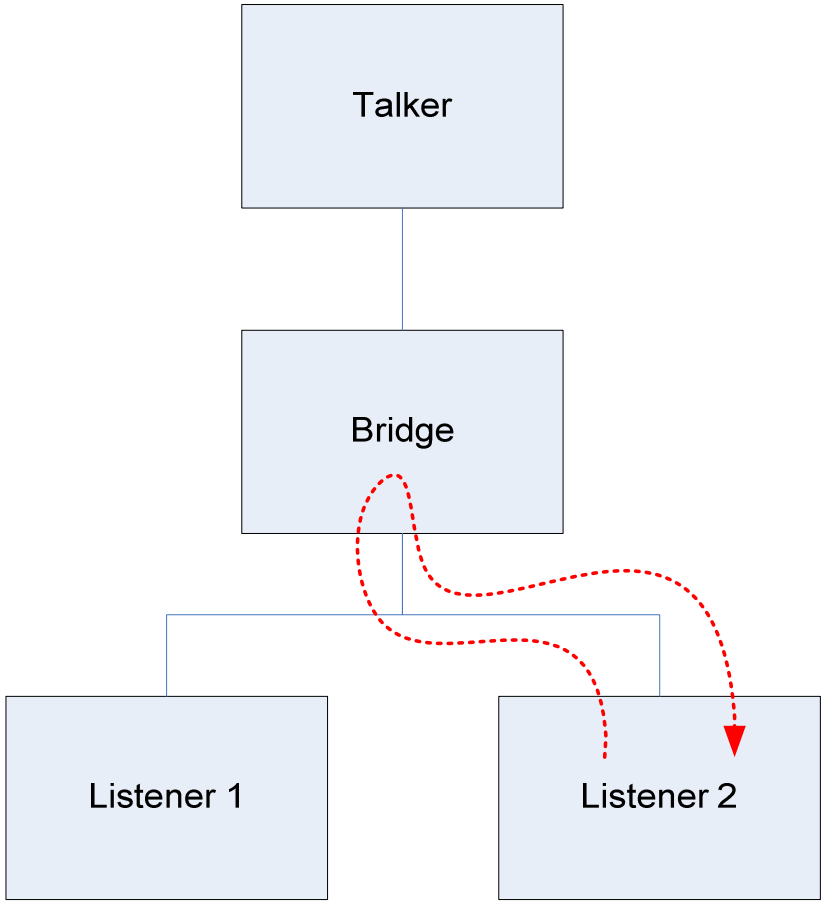
Attach to the Stream
(the first Listener)

- Listener issues a JoinStream.request.
- Bridges mark the incoming port (of the Request) as a Filtering Port.
- Bridges forward the Request in all directions.
- All Listeners and Talkers in the AVB cloud will see this initial Request.
- Talker that owns the Stream will respond with a JoinStream.response and begin transmitting the Stream.
- Bridges forward the Response back to Listener and mark the corresponding ports as Forwarding Ports.
- Listener eventually receives the Response and the associated Stream.



Attach to the Stream
(subsequent Listeners)

- Listener issues a JoinStream.request.
- Bridges mark the incoming port (of the Request) as a Filtering Port.
- Bridges forward the Request in all directions.
- Eventually a Bridge (i.e. the Proxy Bridge) that is already forwarding the Stream on another port will receive the Request.
- The Proxy Bridge will respond with a JoinStream.response and begin transmitting the Stream on that port.
- Bridges forward the Response back to Listener and mark the corresponding ports as Forwarding Ports.
- Listener eventually receives the Response and the associated Stream.



Thank you